1   1.(twice amended) A method for generating a moving haven boundary along a

2   voyage plan comprising the steps of:

3   establishing a width[, centered on said voyage plan,] for said <u>moving haven</u>

4   boundary;

5   creating [boundary] rectangles <u>centered on said voyage plan</u>, said rectangles

6   having edges [at] <u>separated by</u> said width and lengths equal to lengths of strait line

7   portions of said voyage plan[, said boundary comprising said edges]; and

8   determining pie shaped areas between rectangles at waypoints of said voyage

15   plan, <u>each of</u> said pie shaped areas having [arcs between edges of] <u>an arc centered</u>

16   <u>at a waypoint and extending between vertices of</u> rectangles on either side of said

17   waypoint[s]<u>.</u>

18   <u>establishing said moving haven boundary with a polygonal line comprising</u>

19   <u>said edges and said arcs</u>.

Claim 3

        lines 1-5 delete "said voyage plan includes an origin, at least one waypoint, a first waypoint of said at least one waypoint being at a specified distance from said origin, distances between adjacent waypoints of said at least one waypoint, a selected distance from a last waypoint of said at least one waypoint to an end point, and"

        lines 11 and 12 delete "of said at least one waypoint"

Claim 6 line 1 delete "5" and insert therefore --1--

        lines 1 and 2 delete "approximating step includes" and insert therefore -- arcs are approximated with--

1   8.(twice amended)   A method in accordance with claim [7] 1 [wherein said

2   generating step includes] further including the steps of:

3   forming buffer rectangles centered on said boundary having widths equal to

4   twice [said] a selected distance from said boundary and lengths equal to distances

5   between vertices of said boundary;

6   forming buffer arcs between vertices of said buffer edges, said buffer edges

7   and said buffer arcs establishing polygonal lines internal and external to said

8   boundary; and

9   selecting said internal polygonal lines as [said] a buffer boundary.

1   20.(amended)   An apparatus for providing a moving haven boundary along a

2   voyage plan comprising:

3   generator means for generating a polygonal line having line segments and

4   waypoints of said voyage plan;

5   rectangle means coupled to said generator means for establishing rectangle

6   line segments of rectangles along respective segments of said polygonal line, each

7   rectangle centered on said polygonal line of said voyage plan, having a width equal

8   to a preselected width of said moving haven and a length equal to its respective line

9   segment length;

10   arc means coupled to said rectangle means for providing an arc between a

11   trailing edge of a first rectangle and a leading edge of a second rectangle at a

12   selected waypoint, said leading and trailing edges intersecting at said selected

13   waypoint, said arc being represented by a series of arc line segments and formed

14   about an obtuse angle formed by said polygonal line at said selected waypoint; and

15   boundary means coupled to said rectangle means and said arc means for

16   generating said moving haven boundary.